

Product Name :
Ultrasonic Cutting Machine

Product Code :
MM-CHINA11003-0011



Description :

Ultrasonic Cutting Machine

Technical Specification :

As the international engineering sales director coordinating complex factory installations globally, I continually observe plant managers misdiagnosing volumetric waste. Slicing heavily viscous, multi-layered products—such as dense cheese cakes, sticky nougat, or delicate mousse—is structurally hostile to standard mechanical blades. Pushing steel through fat matrices creates friction drag, inevitably leading to collapsed cake sidewalls, smeared cross-contamination between flavors, and immense edge trim waste. We designed this specific multi-axis ultrasonic layout explicitly to solve the -5°C micro-frozen processing bottleneck, removing the necessity for severe blast freezing while ensuring absolute orthogonal exactness on every slice.

Frictionless Acoustic Slicing: Operates at an active 20,000 cycles per second to create a micro-barrier that completely prevents fat molecule adhesion to the blade.

Payload Yield Scaling: Delivers a consistent throughput of up to 1,200 to 1,500 kilograms per hour, dropping volumetric giveaway to strictly below 1.5%.

Aviation-Grade Metallurgy: Employs exclusively forged titanium alloy sonotrodes paired with a fully heavy-gauge stainless steel structural gantry.

Engineering Component: Standard Operational Specification

Max Throughput Capacity 1,200: - 1,500 kg/h (Dependent on matrix density)

Acoustic Frequency Envelope: 20 kHz / 35 kHz Dual Configuration Options

Sonotrode (Blade) Metallurgy: Ti-6Al-4V Titanium Alloy (Acoustically tuned)

Total Connected Load: 4.5 KW (3-Phase 380V/50Hz - Customizable standard)

Physical Dimensions (L×W×H): 2450 mm × 1300 mm × 1850 mm

Equipment Net Mass: 480 kg (Vibration-dampening heavy base)
Cutting Accuracy Tolerance: ± 0.5 mm via Closed-Loop Servo Control



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